

IN THE CLAIMS

Please cancel claims 1-8.

Please add the following new claims:

- Sub B17
9. A system for determining a finger position, the system comprising:
a finger mount adapted to be worn on a finger of a living being, the finger mount comprising one or more of a ring, a clip, a thimble, and a false fingernail;
a position sensor comprising a position sensing element on the finger mount, the position sensor being capable of generating a signal related to the spatial position of the position sensing element; and
a data processor capable of receiving the signal and generating an output signal indicative of the spatial position of the position sensing element, whereby the spatial position of the finger may be determined.
10. A system according to claim 9 wherein the finger mount comprises a ring.
11. A system according to claim 10 wherein the ring comprises an elastic band.
12. A system according to claim 9 wherein the finger mount comprises a clip comprising flexible and separable portions.
13. A system according to claim 9 wherein the finger mount comprises a thimble.
14. A system according to claim 13 wherein the thimble comprises elastic material.
15. A system according to claim 9 wherein the finger mount comprises an artificial fingernail comprising a support adhesively attachable to a fingernail on the finger.
16. A system according to claim 9 wherein the position sensing element comprises an electromagnetic energy transmitter or an electromagnetic energy receiver.
17. A system according to claim 9 further comprising a second position sensing element positionable on another link of the finger, another finger, or a wrist of the living being.
18. A system according to claim 9 wherein the finger mount is positionable on a distal link of the finger, and further comprising a second position sensing element positionable on a proximal link of the finger separated from the distal link by an intermediate link.

19. A system according to claim 18 wherein the data processor is capable of calculating the spatial position of the intermediate link without providing a position sensing element thereon.

20. A system according to claim 9 further comprising a support structure adapted to apply a force reflection to the finger.

21. A system for determining finger position and for controlling a graphic object, the system comprising:

a finger mount adapted to be worn on a finger of a living being, the finger mount comprising one or more of a ring, a clip, a thimble, and a false fingernail;

a position sensor comprising a position sensing element on the finger mount, the position sensor being capable of generating a signal related to the spatial position of the position sensing element; and

a data processor capable of receiving the signal and generating an output signal indicative of the spatial position of the position sensing element, wherein the output signal is used to control the display of a graphic object.

22. A system according to claim 21 wherein the finger mount comprises a clip comprising flexible and separable portions.

23. A system according to claim 21 wherein the finger mount comprises a thimble comprising elastic material.

24. A system according to claim 21 wherein the graphic object is a cursor capable of interacting with a virtual object or a computer program.

25. A system according to claim 21 further comprising a support structure adapted to apply a force reflection to the body part.

26. A system according to claim 27 wherein the sensing element comprises a transmitter.

27. A system for controlling a graphic object generated by a computer, the system comprising:
a finger mount adapted to be worn on a finger of a living being, the finger mount comprising one or more of a ring, a clip, a thimble, and a false fingernail;

a sensor comprising a sensing element on the finger mount, the sensor generating a signal related to the movement of the sensing element; and